



**Professor
Mohan Turup
Pandurangan**

Full Professor,
Department of
Mechanical Engineering

INAUGURAND

INVITATION

Professor Thandwa Mthembu, Vice-Chancellor & Principal of the Durban University of Technology invites you to the inaugural professorial lecture of Professor Mohan Turup Pandurangan.

Inaugural Lecture

In search of eco-friendly composite materials: opportunities and challenges

 **17 APRIL 2024**
16:45

 **VENUE: DUT HOTEL SCHOOL**
CONFERENCE ROOM 2, RITSON CAMPUS
ENTRANCE BY RITSON ROAD GATE 3

ABSTRACT

This presentation details my research contribution to biocomposite materials. Physical, thermal and mechanical properties of all the constituents of biocomposite, namely, matrix, micro/nano fillers, fibers and fiber/filler-matrix adhesion were enhanced by our novel physical and chemical surface modification methods. The structure-property relationships are evaluated in detail. Processing of these materials in the form of fibers, films, sheets and panels for various applications is presented. The opportunities and challenges of these materials in engineering applications and green economy is discussed.

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